

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L31	3526	authenticat\$5 same proxy same server	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/22 10:49
L30	25	authenticat\$5 same proxy same server same anonymous	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/22 10:49
L29	6	cookie same proxy same server same anonymous	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/22 10:40
L2	7	cookie same proxy same server same address and issuer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/22 10:30
L28	7	(cookie same proxy same server same address).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/22 10:15
L25	50	cookie same proxy same server same address and l19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/22 10:14
L27	0	cookie same proxy same server same address and l21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/22 09:38

## EAST Search History

L26	0	cookie same proxy same server same address and l20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/22 09:38
L24	3	cookie same proxy same server same address and l18	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/22 09:38
L23	4	cookie same proxy same server same address and l17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/22 09:38
L21	688	379/93.02,93.03,93.12.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/22 09:27
L20	2507	455/411,415.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/22 09:25
L19	23713	709/217,218,219,225,227,228,229,233,235,243,245,246.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/22 09:25
L18	2500	713/153,154,155,170.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/22 09:21

## EAST Search History

L17	7601	707/10.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/22 09:21
L3	1	10/517176	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/22 09:19
L12	16	cookie same proxy same server same address and issuer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/22 08:50
L11	21	cookie same proxy same server same address and merchant	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/22 08:50
L10	10	("5530852"   "5678041"   "5729594"   "5875296"   "5933811"   "5963915"   "5987440"   "6049877"   "6226752"   "6233577"   "6314521"   "6341353"   "6385596"   "6411998"   "6460071"   "6510439"   "6601169"   "6691113"). PN. and cookie	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/22 08:50
L9	18	("5530852"   "5678041"   "5729594"   "5875296"   "5933811"   "5963915"   "5987440"   "6049877"   "6226752"   "6233577"   "6314521"   "6341353"   "6385596"   "6411998"   "6460071"   "6510439"   "6601169"   "6691113"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/22 08:50
L8	11	cookie same proxy same server same address and merchant	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/22 08:50

## EAST Search History

L7	2	"6026166".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/22 08:10
L1	2	"6157917".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/22 08:10
L6	2	10/225834	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/22 08:07
L5	2	09/749526	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/22 08:07
L4	1	09/767739	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/22 08:02
S90	8	authentication near4 cookie near5 database and (authentication near4 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/22 07:12
S10 1	17	cookie near5 (request\$5) near5 authenticat\$5 same address	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/18 11:12

## EAST Search History

S10 0	0	cookie near5 (request\$5) near5 authenticat\$5 same server near5 address	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/18 11:12
S99	0	cookie near5 (request\$5) near5 authenticat\$5 near5 server near5 address	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/18 11:12
S98	0	cookie near5 (stor\$5 contain\$5) near5 authenticat\$5 near5 server near5 address	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/18 11:11
S96	17	cookie same select\$5 near5 authenticat\$5 same server	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/18 11:09
S97	1	mobile near5 proxy same select\$5 near5 authenticat\$5 same server	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/18 11:07
S95	68	cookie same authenticat\$5 same server near4 address	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/18 10:50
S94	12	cookie near5 database same proxy near3 server	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/18 10:40

## EAST Search History

S92	21	authentication near4 cookie near5 database	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/18 10:17
S93	101	cookie near5 database and (authentication near4 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/18 10:16
S91	16	authentication near4 cookie near5 database and (authentication near4 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/18 10:16
S89	3	authentication near4 cookie near5 database and (proxy near4 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 09:59
S88	2	"6661877".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/14 07:32
S87	1	10/481732	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/11 11:17
S86	2	"5668876".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/11 11:17

## EAST Search History

S85	2	"6836845".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/11 10:09
S78	2	COOKIE near4 (includes including incorporat\$5) near5 (authneticat\$5 authoriz\$7) near5 server near10 address	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/11 09:17
S84	1	"WO01/78351"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/11 08:50
S80	0	"WO 01/78351"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/11 08:50
S83	1	Plikington and british	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 08:49
S82	0	Plikington near4 john	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 08:49
S81	6	Plikington	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/11 08:49

## EAST Search History

S60	89	(proxy gateway stub) same (state cookie) near5 (database) and S58	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/11 08:48
S79	5	COOKIE near10 (authneticat\$5 authoriz\$7) near5 server near10 address	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 14:50
S77	50	send\$5 near5 cookie same authenticat\$5 near5 server	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 16:36
S76	28	cookie same payment near5 server	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 16:35
S75	0	cookie same payment near5 server near5 URL	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 16:19
S74	0	(proxy near4 server) near3 insert\$5 near5 cookie same payment near5 server near5 URL	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 16:19
S15	0	(proxy near4 server) near3 insert\$5 near5 cookie near5 payment near5 server near5 URL	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 16:18

## EAST Search History

S73	1	09/850338	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 15:29
S72	2	10/225834	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 15:29
S71	126	(proxy near4 server) and(cookie near3 store)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 15:27
S70	10	(proxy near4 server) same (cookie near3 store).	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 14:51
S69	146	(web near4 server) same (authentication near5 cookie)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 14:39
S68	8	(payment near4 server) and (authentication near5 cookie)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 14:23
S67	0	(payment near4 server) near6 (authentication near5 cookie)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 14:20

## EAST Search History

S66	5	(proxy near4 server) near6 (authentication near5 cookie)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 14:19
S65	2	(insert\$6) near7 (authentication near5 cookie)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 14:17
S64	0	(insert\$6) near7 (authentication near5 cookie) same (HTTP near5 request\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 14:16
S63	0	(insert\$6) near7 (authentication near5 cookie) near6 (HTTP near5 request\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 14:16
S62	0	(insert\$6) near7 (authentication near5 cookie) near6 (HTTP near5 request\$6) and(authenticat\$5 near5 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 14:15
S61	3	(rout\$6) near5 (authentication near5 cookie) and(authenticat\$5 near5 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 14:15
S55	3	(forward\$6) near5 (authentication near5 cookie) and(authenticat\$5 near5 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:12

## EAST Search History

S59	742	(proxy gateway stub) and (state cookie) near5 (database) and S58	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:39
S53	19	(proxy) same (state persisten\$7 cookie) near5 (database) and(authenticat\$5 near5 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:38
S58	53490	"709"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:35
S57	2	"5680400".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:35
S52	2	"5875296".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:21
S56	1	(forward\$6) near5 (authentication near5 cookie) and(proxy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:11
S54	0	(proxy) same (forward\$6) near5 (authentication near5 cookie) and(authenticat\$5 near5 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 09:42

## EAST Search History

S26	0	(proxy) same cookie near5 (database) same (authenticat\$5 near5 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 09:30
S51	1	09/805429	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 08:56
S39	13	(payment adj server) same electronic adj wallet	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 08:45
S50	47	transmit\$7 near6 (payment authentic\$8) near5 cookie	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 11:22
S49	0	transmit\$7 near6 wallet near5 cookie	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 11:21
S48	22	wallet near5 cookie	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 11:20
S35	70	web near4 server same (payment near5 server) and cookie	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 10:50

## EAST Search History

S47	1	cookie near5 (URL address) near4 (authenticat\$5 adj server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 10:39
S46	3795	Pilkington	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 10:38
S22	97	(proxy) same cookie near5 (stor\$5) same (server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 10:13
S45	143	cookie same (authentication near5 server) and (proxy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 08:37
S43	353	cookie same (authentication near5 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 08:22
S44	1	cookie same (client user) near5 (preference) same (authentication near5 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 08:15
S42	15	(proxy) same cookie same (authentication near5 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 16:39

## EAST Search History

S32	0	(proxy) same cookie same (payment near5 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 16:32
S41	1	09/805429	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 15:51
S40	1	(payment adj server) and electronic adj wallet same cookie	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 15:51
S37	6	(payment adj server) same cookie	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 15:39
S38	2	"6092053".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 15:36
S36	21	web near4 server same (payment adj server) and cookie	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 15:35
S34	684	web near4 server same (payment near5 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 15:20

## EAST Search History

S33	12	cookie same web near4 server same (payment near5 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 15:19
S31	0	cookie same (authenticat\$5 near5 payment near5 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 15:00
S30	0	(proxy) same cookie same (authenticat\$5 near5 payment near5 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 15:00
S28	5	(proxy) same cookie same (authenticat\$5 near5 token)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 14:59
S29	2	"5586260".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 14:46
S23	2	"6449052".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 14:46
S27	0	(proxy) same cookie near5 (database) same (authenticat\$5 near5 token)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 14:40

## EAST Search History

S25	14	("6374300" "6389460" "6473802" "6496931" "6499052" "6675214" "6823369").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 13:49
S24	2	"6499052".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 13:49
S21	0	(proxy) same cookie near5 (stor\$5) same (wallet near4 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 11:07
S18	0	(proxy) same cookie near5 cache same (wallet near4 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 11:03
S20	9	("5704029"   "5801713"   "6085224"   "6256739"   "6330566"   "6393468"   "6397253"   "6460141"   "6507911").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/14 10:55
S19	21	(proxy) same cookie near5 cache	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 10:11
S16	3	(proxy) same web same cookie same (wallet near4 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 10:10
S17	6	("5742759"   "5941947"   "6049877"   "6279111"   "6516416"   "6615258").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/14 10:01

## EAST Search History

S7	154	(proxy) near4 (append\$5) cookie near5 (address URL) same ((mail near5 server)(authentication near3 server) (authorization near4 server) (payment near4 server) (ticket\$5 near4 server)(wallet near4 server))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/14 09:54
S14	0	(proxy near4 server) near3 insert\$5 near5 cookie near5 authentic\$9 near5 server	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/13 17:04
S4	2	cookie near5 (address URL) near5 ((mail near5 server)(authentication near3 server) (authorization near4 server) (payment near4 server) (ticket\$5 near4 server)(wallet near4 server)) same (proxy near4 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/13 16:54
S13	14	cookie same ((mail near5 server)(authentication near3 server) (authorization near4 server) (payment near4 server) (ticket\$5 near4 server)(wallet near4 server)) near5 (URL)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/13 16:24
S12	3	cookie near6 ((mail near5 server)(authentication near3 server) (authorization near4 server) (payment near4 server) (ticket\$5 near4 server)(wallet near4 server)) near5 (URL)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/13 16:24
S11	3	(proxy)same (append\$5) same cookie same ((mail near5 server)(authentication near3 server) (authorization near4 server) (payment near4 server) (ticket\$5 near4 server)(wallet near4 server))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/13 16:19
S10	0	(proxy) near4 (append\$5) near5 cookie near5 ((mail,near5 server)(authentication near3 server) (authorization near4 server) (payment near4 server) (ticket\$5 near4 server)(wallet near4 server))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/13 16:12

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S8	0	(proxy) near4 (append\$5) near5 cookie near5 (address URL) same ((mail near5 server)(authentication near3 server) (authorization near4 server) (payment near4 server) (ticket\$5 near4 server)(wallet near4 server))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/13 16:12
S6	382	(proxy) near4 (append\$5) cookie near5 (address URL) and ((mail near5 server)(authentication near3 server) (authorization near4 server) (payment near4 server) (ticket\$5 near4 server)(wallet near4 server))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/13 16:03
S5	7	cookie near5 (address URL) near5 ((mail near5 server)(authentication near3 server) (authorization near4 server) (payment near4 server) (ticket\$5 near4 server)(wallet near4 server))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/13 16:00
S3	19	((mail near5 server)(authentication near3 server) (authorization near4 server) (payment near4 server) (ticket\$5 near4 server)(wallet near4 server)) same cookie same (proxy near4 server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/13 15:53
S2	2	"6157917".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/13 15:00
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IET CNF IET Conference Proceeding

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**1** Role-based access control on the web

Joon S. Park, Ravi Sandhu, Gail-Joon Ahn

 February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 1

**Publisher:** ACM Press

Full text available: pdf(331.03 KB) Additional Information: full citation, abstract, references, citations, index terms, review

Current approaches to access control on the Web servers do not scale to enterprise-wide systems because they are mostly based on individual user identities. Hence we were motivated by the need to manage and enforce the strong and efficient RBAC access control technology in large-scale Web environments. To satisfy this requirement, we identify two different architectures for RBAC on the Web, called user-pull and server-pull. To demonstrate feasibility, we im ...

**Keywords:** WWW security, cookies, digital certificates, role-based access control

**2** Technical Session: Supporting ubiquitous computing through directory enabled

technologies

Michael Richichi, Paul Coen

 October 2001 **Proceedings of the 29th annual ACM SIGUCCS conference on User services SIGUCCS '01**
**Publisher:** ACM Press

Full text available: pdf(285.27 KB) Additional Information: full citation, abstract, references, citations, index terms

Drew has been providing computers to students since 1984. Many universities have ubiquitous computing programs where students receive a laptop computer as part of their educational package. These programs reduce the dependence on and management issues of traditional computer labs, and allow 24x7 computing access to every student at the University. Drew also provides Novell Directory Services (NDS) accounts to all of these students, and utilizes Novell ZENworks to customize software, personalize ...

**Keywords:** LDAP, ZENworks, directory services, eDirectory, laptop programs, management, ubiquitous computing

3 Digital village: Hijacking the web



Hal Berghel

April 2002 **Communications of the ACM**, Volume 45 Issue 4

Publisher: ACM Press

Full text available: [pdf\(414.65 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

[html\(22.32 KB\)](#)

Cookies revisited: Continuing the dialogue on personal security and underlying privacy issues.



4 HeinOnline



Richard J. Marisa

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries JCDL '01**

Publisher: ACM Press

Full text available: [pdf\(217.08 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



HeinOnline is a new online archive of law journals. Development of HeinOnline began in late 1997 through the cooperation of Cornell Information Technologies, William S. Hein & Co., Inc. of Buffalo, NY, and the Cornell Law Library. Built upon the familiar Dienst and new Open Archive Initiative protocols, HeinOnline extends the reliable and well-established management practices of open access archives like NCSTRL and CoRR to a subscription-based collection. The decisions made in c ...

**Keywords:** [dienst](#), [digital library](#), [document structure](#), [law journals](#), [metadata](#), [system design](#)



5 Internet security: firewalls\_and\_beyond



Rolf Oppliger

May 1997 **Communications of the ACM**, Volume 40 Issue 5

Publisher: ACM Press

Full text available: [pdf\(339.15 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)



6 Principled design of the modern Web architecture



Roy T. Fielding, Richard N. Taylor

May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: [pdf\(335.47 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

**Keywords:** [Network-based applications](#), [REST](#), [World Wide Web](#)



7 The state of the art in locally distributed Web-server systems

Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu

June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.41 MB)

Additional Information: full citation, abstract, references, citations, index terms

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

**Keywords:** Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

8 Witan web and the software engineering of web-based applications

J. Howard Johnson, Stephen A. Mackay

November 2000 **Proceedings of the 2000 conference of the Centre for Advanced Studies on Collaborative research CASCON '00**

Publisher: IBM Press

Full text available:  pdf(653.32 KB) Additional Information: full citation, abstract, references, index terms

WitanWeb is a web-based application that supports the interactions among program committee members, authors, and reviewers for the refereeing process of conferences. Since development began in 1997, it has evolved a great deal to support the requirements of CASCON, WWW8, and ICSE 2001 as well as several other significant conferences. The development focus has emphasized usability related to the task as well as security, integrity, and availability to encourage the development of trust by each cl ...

9 Consumer privacy concerns about Internet marketing

Huaiqing Wang, Matthew K. O. Lee, Chen Wang

March 1998 **Communications of the ACM**, Volume 41 Issue 3

Publisher: ACM Press

Full text available:  pdf(188.85 KB) Additional Information: full citation, references, citations, index terms

10 Artefact: a framework for low-overhead Web-based collaborative systems

Jeff Brandenburg, Boyce Byerly, Tom Dobridge, Jinkun Lin, Dharmaraja Rajan, Timothy Roscoe

November 1998 **Proceedings of the 1998 ACM conference on Computer supported cooperative work CSCW '98**

Publisher: ACM Press

Full text available:  pdf(909.87 KB) Additional Information: full citation, references, citations, index terms

**Keywords:** Artefact, CORBA, CSCW, HTTP, World Wide Web, collaboration, groupware, multi-user environments, update protocols

11 Designing and implementing QoS management of the web

Maksim A. Aleksandrov, Vladislav S. Voinov

November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research CASCON '98**

Publisher: IBM Press

Full text available:  pdf(188.73 KB) Additional Information: full citation, abstract, references, citations, index terms

This paper summarizes our efforts taken to challenge the issues of management systems that perform control over explicitly given expectations on service quality of the Web-based systems. Goals and principles of management, Quality of Service (QoS) metrics and controllable parameters, and architecture of the management system prototype are described and analyzed. Various management policies that can be applied within the Web Management System (WMS) are presented and discussed. Presented WMS proto ...

12 Enabling dynamic content caching for database-driven web sites 

 K. Selçuk Candan, Wen-Syan Li, Qiong Luo, Wang-Pin Hsiung, Divyakant Agrawal  
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01**, Volume 30 Issue 2

Publisher: ACM Press

Full text available:  pdf(319.67 KB) Additional Information: full citation, abstract, references, citations, index terms

Web performance is a key differentiation among content providers. Snafus and slowdowns at major web sites demonstrate the difficulty that companies face trying to scale to a large amount of web traffic. One solution to this problem is to store web content at server-side and edge-caches for fast delivery to the end users. However, for many e-commerce sites, web pages are created dynamically based on the current state of business processes, represented in application servers and databases

**Keywords:** JDBC, application server, database driven web site, dynamic content caching, invalidation, web acceleration

13 WebQuilt: A proxy-based approach to remote web usability testing 

 July 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 3

Publisher: ACM Press

Full text available:  pdf(2.89 MB) Additional Information: full citation, abstract, references, citations, index terms, review

WebQuilt is a web logging and visualization system that helps web design teams run usability tests (both local and remote) and analyze the collected data. Logging is done through a proxy, overcoming many of the problems with server-side and client-side logging. Captured usage traces can be aggregated and visualized in a zooming interface that shows the web pages people viewed. The visualization also shows the most common paths taken through the web site for a given task, as well as the optimal p ...

**Keywords:** Usability evalution, WebQuilt, log file analysis, web proxy, web visualization

14 On proxy agents, mobility, and web access 

Anupam Joshi  
December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  pdf(201.52 KB) Additional Information: full citation, abstract, references, citations, index terms

With the emerging need for ubiquitous access to information, web access from mobile clients is gaining increasing importance. Unfortunately, the underlying protocols of the web are not designed to support operations from a resource poor platform in a low bandwidth, disconnection prone environment. Efforts to create systems to support mobile browsing have typically been proxy&dash;based. However, such solutions have recently been criticized due to their non&dash;scalability. Developments in ad ...

**15 The platform for privacy preferences**

 Joseph Reagle, Lorrie Faith Cranor  
February 1999 **Communications of the ACM**, Volume 42 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(212.61 KB)  
 html(41.98 KB)

Additional Information: full citation, references, citations, index terms

**16 Internet privacy**

 Lorrie Faith Cranor  
February 1999 **Communications of the ACM**, Volume 42 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(142.70 KB)  
 html(12.51 KB)

Additional Information: full citation, references, citations, index terms

**17 Interposed request routing for scalable network storage**

 February 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(363.12 KB) Additional Information: full citation, abstract, references, citations, index terms, review

This paper explores interposed request routing in Slice, a new storage system architecture for high-speed networks incorporating network-attached block storage. Slice interposes a request switching filter---called a *μproxy*---along each client's network path to the storage service (e.g., in a network adapter or switch). The *μproxy* intercepts request traffic and distributes it across a server ensemble. We propose request routing schemes for I/O and file service traffic, and explore th ...

**Keywords:** Content switch, file server, network file system, network storage, request redirection, service virtualization

**18 Letters to the Editor**

April 1998 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  html(12.38 KB) Additional Information: full citation, index terms

**19 Privacy-preserving global customization**

 Robert M. Arlein, Ben Jai, Markus Jakobsson, Fabian Monroe, Michael K. Reiter  
October 2000 **Proceedings of the 2nd ACM conference on Electronic commerce EC '00**

**Publisher:** ACM Press

Full text available:  pdf(401.52 KB) Additional Information: full citation, references, citations, index terms

**20 Reports from related meetings: WEBKDD'99: workshop on Web usage analysis and**

 user profiling

Brij Masand, Myra Spiliopoulou

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

**Publisher:** ACM Press



Full text available:  pdf(402.47 KB) Additional Information: full citation, abstract, references, citings

The WEBKDD'99 workshop on "Web Usage Analysis and User Profiling" took place at Aug. 15, 1999 under the auspices of the SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD'99). We report on the topics addressed in the workshop, the contributions and the discussions that took place in its framework.

**Keywords:** web usage mining

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